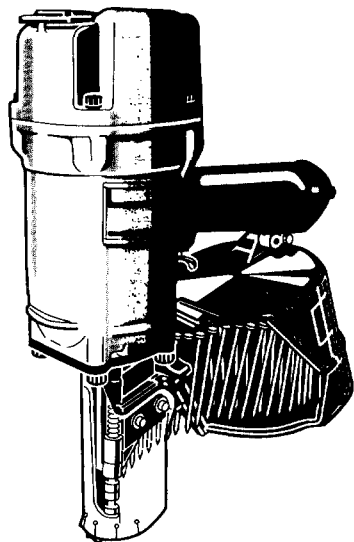


HITACHI

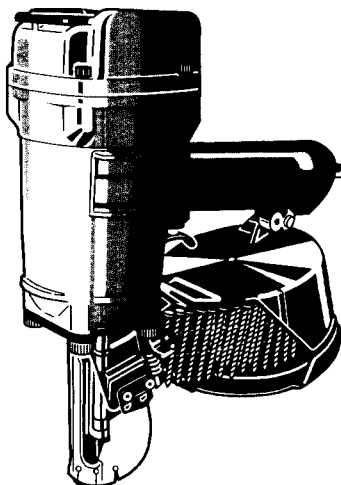
MODEL
MODÈLE
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NV 83A NV 65AC
NV 50A1

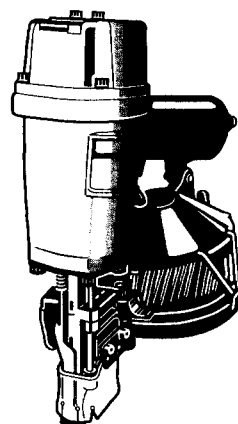
NAILER
CLOUEUR
MARTILLO NEUMÁTICO



NV83A



NV65AC



NV50A1

INSTRUCTION MANUAL AND SAFETY INSTRUCTIONS

⚠ DANGER

Improper and unsafe use of this Nailer will result in death or serious injury!
This Manual contains important information about product safety.
Read and understand this Manual before operating the Nailer.
Keep this Manual available for others before they use the Nailer.

MODE D'EMPLOI ET INSTRUCTIONS DE SECURITE

⚠ DANGER

Une utilisation incorrecte et sans respecter la sécurité de ce cloueur risque d'entraîner la mort ou des blessures graves !
Ce manuel renferme des instructions importantes sur la sécurité de l'outil.
Lire et bien assimiler ce manuel avant d'utiliser le cloueur.
Conserver ce manuel à l'intention des autres utilisateurs du cloueur.

MANUAL DE INSTRUCCIONES E INSTRUCCIONES DE SEGURIDAD

⚠ PELIGRO

¡La utilización inadecuada e insegura de este martillo neumático puede resultar en lesiones serias o en la muerte!
Este manual contiene información importante sobre la seguridad del producto.
Lea y entienda este manual antes de utilizar el martillo neumático.
Guarde este manual a mano para que puedan consultarlo otras personas antes de utilizar el martillo neumático.

CONTENTS

English

	Page		Page
IMPORTANT INFORMATION	3	BEFORE OPERATION	9
DEFINITIONS OF SIGNAL WORDS	3	WORKING ENVIRONMENT	9
SAFETY		AIR SUPPLY	9
IMPORTANT SAFETY INSTRUCTIONS		LUBRICATION	10
FOR USING NAILERS	4	COLD WEATHER CARE	10
IMPORTANT SAFETY INSTRUCTIONS FOR USING		TESTING THE NAILER	10
NV83A • NV65AC • NV50A1 COIL NAILER	6	ADJUSTING AIR PRESSURE	11
EMPLOYER'S RESPONSIBILITIES	6	LOADING NAILS	11
OPERATION		NAILER OPERATION	12
NAME OF PARTS	7	METHODS OF OPERATION	13
SPECIFICATIONS	8	ADJUSTING THE NAILING DEPTH	14
NAIL SELECTION	8	MAINTENANCE	
ACCESSORIES	8	MAINTENANCE AND INSPECTION	15
STANDARD ACCESSORIES	8	SERVICE AND REPAIRS	16
OPTIONAL ACCESSORIES	9	PARTS LIST	48
APPLICATIONS	9		

TABLE DE MATIERES

Français

	Page		Page
INFORMATION IMPORTANTE	18	APPLICATIONS	24
DEFINITION DES MOTS DE SIGNALISATION	18	AVANT L'UTILISATION	24
SECURITE		ENVIRONNEMENT DE TRAVAIL	24
CONSIGNES DE SECURITE IMPORTANTES		ALIMENTATION D'AIR	24
POUR L'UTILISATION DU CLOUEUR	19	GRAISSAGE	25
IMPORTANTES INSTRUCTIONS DE SECURITE POUR		ENTRETIEN PAR TEMPS FROID	25
L'UTILISATION DU CLOUEUR NV83A • NV65AC •		ESSAI DU CLOUEUR	25
NV50A1	21	RÉGLAGE DE LA PRESSION D'AIR	26
RESPONSABILITES DE L'EMPLOYEUR	21	CHARGEMENT DES CLOUS	26
UTILISATION		UTILISATION DU CLOUEUR	27
NOM DES PIECES	22	MÉTHODES D'UTILISATION	28
SPECIFICATIONS	23	RÉGLAGE DE LA PROFONDEUR DE CLOUAGE	29
SELECTION DES CLOUS	23	ENTRETIEN	
ACCESSOIRES	23	ENTRETIEN ET INSPECTION	30
ACCESSOIRES STANDARD	23	ENTRETIEN ET REPARATIONS	31
ACCESSOIRES EN OPTION	24	LISTA DES PIÈCES	48

INDICE

Español

	Página		Página
INFORMACIÓN IMPORTANTE	33	APLICACIONES	39
DEFINICIÓN DE LAS PALABRAS CLAVE	33	ANTES DE LA OPERACIÓN	39
SEGURIDAD		ENTORNO DE TRABAJO	39
INSTRUCCIONES IMPORTANTES DE SEGURIDAD PARA		SUMINISTRO DE AIRE	39
LA UTILIZACIÓN DEL MARTILLO NEUMÁTICO	34	LUBRICACIÓN	40
INSTRUCCIONES IMPORTANTES DE SEGURIDAD PARA		CUIDADOS PARA CLIMAS FRÍOS	40
UTILIZAR EL MARTILLO NEUMÁTICO DE RISTRA NV83A •		PRUEBA DEL MARTILLO NEUMÁTICO	40
NV65AC • NV50A1	36	AJUSTE DE LA PRESIÓN DE AIRE	41
RESPONSABILIDADES DEL EMPRESARIO	36	CARGA DE PUNTAS	41
OPERACIÓN		OPERACIÓN DEL MARTILLO NEUMÁTICO	43
NOMENCLATURA	37	MÉTODOS DE OPERACIÓN	43
ESPECIFICACIONES	38	AJUSTE DE LA PROFUNDIDAD DE CLAVADO	44
SELECCIÓN DE PUNTAS	38	MANTENIMIENTO	
ACCESORIOS	38	MANTENIMIENTO E INSPECCIÓN	45
ACCESORIOS ESTÁNDAR	38	SERVICIO Y REPARACIONES	46
ACCESORIOS OPCIONALES	39	LISTA DE PIEZAS	48

IMPORTANT INFORMATION

READ AND UNDERSTAND ALL OF THE OPERATING INSTRUCTIONS, SAFETY PRECAUTIONS AND WARNINGS IN THIS MANUAL BEFORE OPERATING OR MAINTAINING THIS NAILER.

Most accidents that result from the operation and maintenance of Nailers are caused by the failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing a potentially hazardous situation before it occurs, and by observing appropriate safety procedures.

Basic safety precautions are outlined in the “SAFETY” section of this Manual and in the sections which contain the operation and maintenance instructions.

Hazards that must be avoided to prevent bodily injury or machine damage are identified by **DANGERS** and **WARNINGS** on the Nailer and in this Manual.

Never use this Nailer for applications other than those specified in this Manual.

DEFINITIONS OF SIGNAL WORDS

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or may cause machine damage.

NOTE emphasizes essential information.

SAFETY

IMPORTANT SAFETY INSTRUCTIONS FOR USING NAILERS

READ ALL INSTRUCTIONS

⚠ DANGER

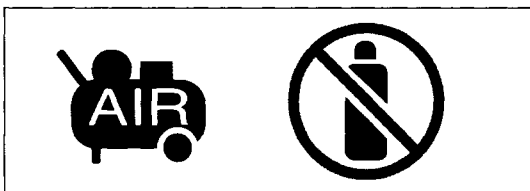
1. ALWAYS WEAR EYE PROTECTOR.



When operating the Nailer, always wear eye protector, and make sure others in work area wear eye protector, too.
Eye protector must conform to the requirements of American National Standards Institute, ANSI Z87.1 and provide protection against flying particles both from the front and side.

The employer must enforce the use of eye protector by the Nailer operator and others in work area.

2. NEVER USE BOTTLED GASES.



Never use oxygen, combustible gases or any other bottled gases as a power source for the Nailer.

Use of the above gases is dangerous, as the Nailer will explode.
Use only clean, dry, regulated compressed air.

⚠ WARNING

3. DO NOT EXCEED 120 psi.



Do not exceed maximum recommended air pressure 120 psi (8.3 bar 8.5 kgf/cm²).

Never connect the Nailer to pressure which potentially exceeds 200 psi (13.7 bar 14 kgf/cm²) as the Nailer can burst.

4. NEVER POINT NAILER TOWARD YOURSELF OR ANYONE ELSE.

Always assume the Nailer contains fasteners.
Never point the Nailer toward yourself or anyone else, whether it contains fasteners or not.
If fasteners are mistakenly driven, it can lead to severe injuries.

Never engage in horseplay with the Nailer.
Respect the Nailer as a working implement.

5. NEVER CARRY WITH FINGER ON TRIGGER.

Remove finger from trigger when not driving fasteners.
Never carry the Nailer with finger on trigger since you could drive a fastener unintentionally and injure yourself or someone else.
Always carry the Nailer by the handle only.

6. ALWAYS WEAR EAR AND HEAD PROTECTOR.

Always wear ear protector to protect your ears from loud noise.
Always wear head protector to protect your head from flying objects.

7. STORE NAILER PROPERLY.

When not in use, the Nailer should be stored in a dry place. Keep out of reach of children. Lock the storage area.

8. KEEP WORK AREA CLEAN.

Cluttered areas invite injuries. Clear all work areas of unnecessary tools, debris, furniture, etc.

9. NEVER USE IN PRESENCE OF FLAMMABLE LIQUIDS OR GASES.

The Nailer produces sparks during operation. Never use the Nailer in sites containing lacquer, paint, benzine, thinner, gasoline, gases, adhesive agents, and other materials which are combustible or explosive.

10. KEEP VISITORS AWAY.

Do not let visitors handle the Nailer.
All visitors should be kept safely away from work area.

11. DRESS PROPERLY.

Do not wear loose clothing or jewelry as they can be caught in moving parts.
Rubber gloves and nonskid footwear are recommended when working outdoors.
Wear protective hair covering to contain long hair.

12. NEVER USE NON RELIEVING COUPLER ON NAILER.

If a non relieving coupler is used on the Nailer, the Nailer can remain charged with air after disconnecting and thus will be able to drive a fastener even after disconnecting.
The Nailer and air hose must have a hose coupling such that all pressure is removed from the Nailer when the coupling joint is disconnected.

13. CHECK PUSH LEVER BEFORE USE.

Make sure the push lever operates properly. (The push lever may be called "Safety".) Never use the Nailer unless the push lever is operating properly, otherwise the Nailer could drive a fastener unexpectedly. Do not tamper with or remove the push lever, otherwise the push lever becomes inoperable.

14. KEEP ALL SCREWS AND COVERS TIGHTLY IN PLACE.

Keep all screws and covers tightly mounted. Check their condition periodically.
Never use the Nailer if parts are missing or damaged.

15. DO NOT LOAD FASTENERS WITH TRIGGER PULLED OR PUSH LEVER DEPRESSED.

When loading fasteners into the Nailer or when connecting the air hose,
1) do not pull the trigger;
2) do not depress the push lever; and
3) keep the Nailer pointed downward.

16. KEEP HANDS AND FEET AWAY FROM FIRING HEAD DURING USE.

Never place your hands or feet closer than 8 inches (200 mm) from the firing head.
A serious injury can result if the fasteners are deflected by the workpiece, or are driven away from the point of entry.

17. PLACE NAILER PROPERLY ON WORKPIECE.

Do not drive fasteners on top of other fasteners or with the Nailer at too steep of an angle; the fasteners can ricochet and hurt someone.

18. BE CAREFUL OF DOUBLE FIRE DUE TO RECOIL.

If the push lever is unintentionally allowed to re-contact the workpiece following recoil, an unwanted fastener will be driven.
In order to avoid this undesirable double fire,
1) do not push the Nailer on the workpiece with strong force;
2) take the Nailer completely away from the workpiece using recoil, and keep the push lever away from the workpiece until the next desirable shot; and
3) pull the trigger and release it QUICKLY when performing intermittent operation (trigger fire).

19. DO NOT DRIVE FASTENERS INTO THIN BOARDS OR NEAR CORNERS AND EDGES OF WORKPIECE.

The fasteners can be driven through or away from the workpiece and hit someone.

20. NEVER DRIVE FASTENERS FROM BOTH SIDES OF A WALL AT THE SAME TIME.

The fasteners can be driven into and through the wall and hit a person on the opposite side.

21. CHECK FOR LIVE WIRES.

Avoid the risk of severe electrical shock by checking for live electrical wires that may be hidden by walls, floors or ceilings. Turn off the breaker switch to ensure there are no live wires.

22. NEVER CARRY NAILER BY HOSE.**23. DO NOT OVERREACH.**

Keep proper footing and balance at all times.

24. NEVER USE NAILER WHICH IS DEFECTIVE OR OPERATING ABNORMALLY.

If the Nailer appears to be operating unusually, making strange noises, or otherwise appears defective, stop using it immediately and arrange for repairs by a Hitachi authorized service center.

25. DO NOT DISCONNECT AIR HOSE FROM NAILER WITH FINGER ON TRIGGER.

The Nailer can fire when re-connected to an air supply.

SAFETY — Continued

26. DISCONNECT AIR HOSE FROM NAILER WHEN:

- 1) doing maintenance and inspection;
- 2) clearing a jam;
- 3) it is not in use;
- 4) leaving work area;
- 5) moving it to another location; and
- 6) handing it to another person.

Never attempt to clear a jam or repair the Nailer unless you have disconnected air hose from the Nailer and removed all remaining fasteners from the Nailer.

The Nailer should never be left unattended since people who are not familiar with the Nailer might handle it and injure themselves.

27. STAY ALERT.

Watch what you are doing. Use common sense.

Do not operate the Nailer when you are tired.

The Nailer should never be used by you if you are under the influence of alcohol, drugs or medication that makes you drowsy.

28. HANDLE NAILER CORRECTLY.

Operate the Nailer according to this Manual.

Never allow the Nailer to be operated by children, individuals unfamiliar with its operation or unauthorized personnel.

29. NEVER USE NAILER FOR APPLICATIONS OTHER THAN THOSE SPECIFIED IN THIS MANUAL.

30. HANDLE NAILER CAREFULLY

Because of high air pressure in the Nailer, cracks in the surface are dangerous.

To avoid this, do not drop the Nailer or strike the Nailer against hard surfaces; and do not scratch or engrave signs on the Nailer. Handle the Nailer carefully.

31. MAINTAIN NAILER WITH CARE.

Keep the Nailer clean and lubricated for better and safer performance.

32. USE ONLY PARTS, ACCESSORIES OR FASTENERS SUPPLIED OR RECOMMENDED BY HITACHI.

Unauthorized parts, accessories, or fasteners may void your warranty and can lead to malfunction and resulting injuries.

Only service personnel trained by Hitachi, distributor or employer shall repair the Nailer.

Never modify or alter a nailer. Doing so may cause it to malfunction and personal injuries may result.

IMPORTANT SAFETY INSTRUCTIONS FOR USING NV83A · NV65AC · NV50A1 COIL NAILER

⚠ WARNING

1. DO NOT REMOVE DUST COVER.

Fragments of wire collating fasteners can fly out.

2. CLOSE NAIL GUIDE AND DO NOT OPEN IT DURING OPERATION.

If driving fasteners with the nail guide open, the fasteners can be driven away from the workpiece.

3. DO NOT OPEN MAGAZINE FACING DOWNWARD WHILE LOADING FASTENERS.

The fasteners can fall down and result in personal injury.

EMPLOYER'S RESPONSIBILITIES

1. Ensure that this MANUAL is available to operators and personnel performing maintenance.
2. Ensure that Nailers are used only when operators and others in work area are wearing EYE PROTECTOR.
3. Enforce the use of EYE PROTECTOR by operators and others in work area.

4. Keep Nailers in safe working order.

5. Maintain Nailers properly.

6. Ensure that Nailers which require repair are not further used before repair.

SAVE THIS MANUAL AND KEEP IT AVAILABLE FOR OTHERS!

OPERATION

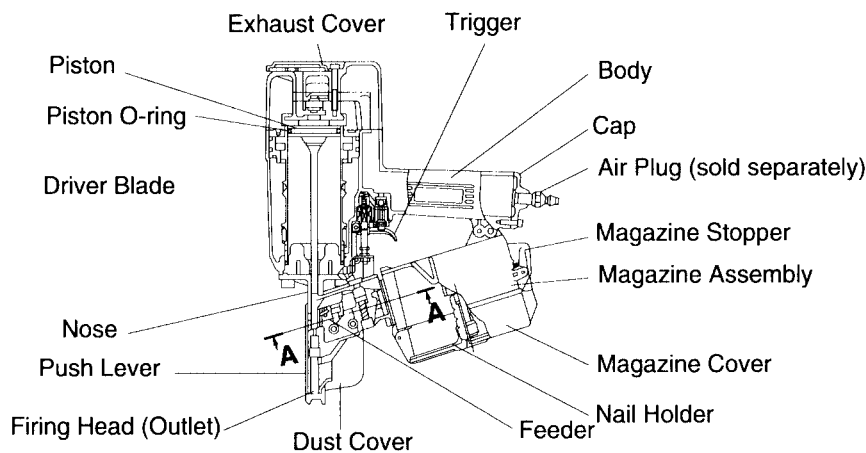
NOTE:

The information contained in this Manual is designed to assist you in the safe operation of the Nailer.

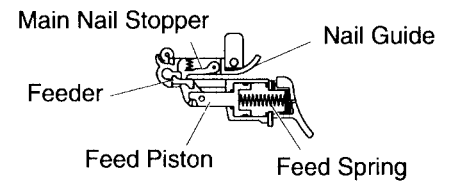
Some illustrations in this Manual may show details or attachments that differ from those on your own Nailer.

NAME OF PARTS

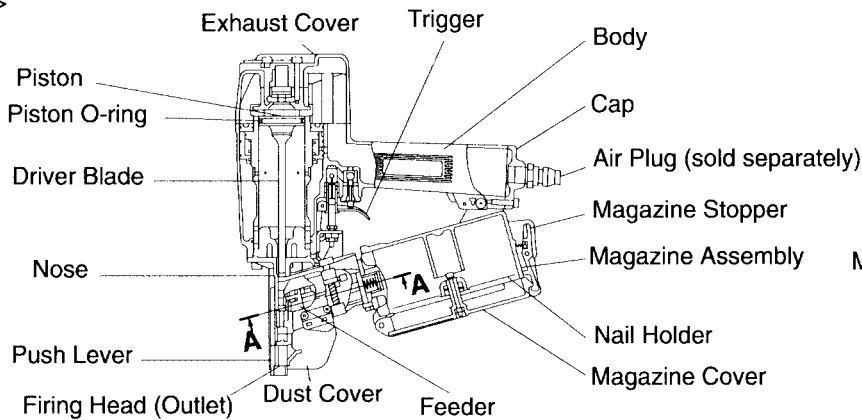
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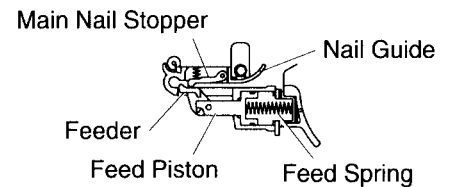
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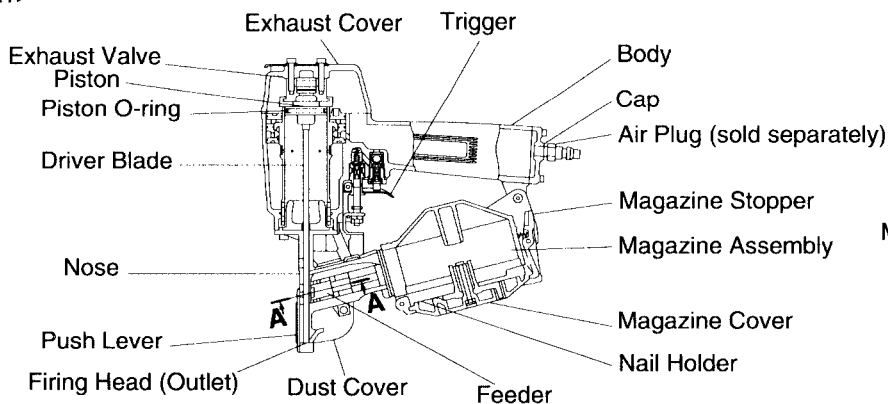
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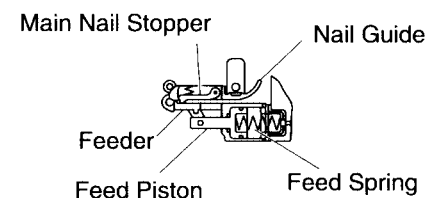
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Section A-A



SPECIFICATIONS

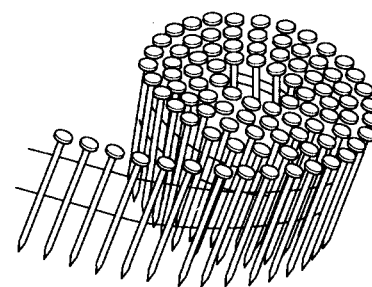
Model	NV83A	NV65AC	NV50A1
Operating pressure	70 – 120 psi (4.9 – 8.3 bar 5 – 8.5 kgf/cm ²)		
Dimensions Length × Height × Width	11-13/32"×13-11/16"× 5-13/32" (290mm × 348mm ×137mm)	11-13/32"×12-17/32"× 5-13/32" (290mm × 318mm ×137mm)	9-27/32"×10-3/8"× 4-11/16" (250mm × 264mm ×119mm)
Weight	7.7 lbs (3.5 kg)	7.5 lbs (3.4 kg)	4.2 lbs (1.9 kg)
Nail capacity	200–300 nails (1 coil)	250–300 nails (1 coil)	400 nails (1 coil)
Air consumption	.084 ft ³ /cycle at 100 psi (2.4 ltr/cycle at 6.9 bar) (2.4 ltr/cycle at 7 kgf/cm ²)	.075 ft ³ /cycle at 100 psi (2.1 ltr/cycle at 6.9 bar) (2.1 ltr/cycle at 7 kgf/cm ²)	.035 ft ³ /cycle at 100 psi (.99 ltr/cycle at 6.9 bar) (.99 ltr/cycle at 7 kgf/cm ²)
Air inlet	3/8 NPT Thread		

NAIL SELECTION

Only nails shown in the Table below can be driven with this Nailer.
Nails are collated and coiled, as shown in the right figure.

Dimensions of nails

NV83A		NV65AC		NV50A1	
Min.	Max.	Min.	Max.	Min.	Max.
.236" (6 mm)	.283" (7.2 mm)	.245" (6.2 mm)	.266" (6.8 mm)	.189" (4.8 mm)	.189" (4.8 mm)
2" (50 mm)	3-1/4" (83 mm)	1-3/4" (45 mm)	2-1/2" (65 mm)	1-1/4" (32 mm)	2" (50 mm)
.099" (2.5 mm)	.131" (3.3 mm)	.099" (2.5 mm)	.111" (2.8 mm)	.083" (2.1 mm)	.083" (2.1 mm)



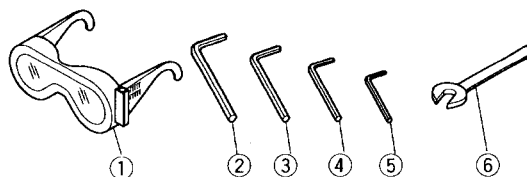
Wine-collated coil nails

ACCESSORIES

⚠ WARNING

- Accessories other than those shown below can lead to malfunction and resulting injuries.

STANDARD ACCESSORIES



Model	NV83A	NV65AC	NV50A1
① Eye protector	1	1	1
② Allen wrench for M8 screw	1	1	
③ Allen wrench for M6 screw	1	1	
④ Allen wrench for M5 screw	1	1	1
⑤ Allen wrench for M4 screw			1
⑥ Wrench 8mm	2		

OPTIONAL ACCESSORIES

... sold separately

- Sequential Trip Mechanism Kit (Code No. 876762)
(Single Shot Parts)
- Pneumatic Tool Lubricant
 - .8 oz. (25 cc) oil feeder (Code No. 877153)
 - 4 oz. (120 cc) oil feeder (Code No. 874042)
 - 1 quart (1 ltr) can (Code No. 876212)

NOTE: Accessories are subject to change without any obligation on the part of HITACHI.

APPLICATIONS

<NV83A NV65AC>

- Construction wooden work such as floor and wall framing, roof decking, subflooring.
- Mobile and modular home construction.
- Making wooden boxes, palletes, and drums.
- Packing operations in manufacturing plants, and other types of packing and crating work in general.

<NV50A1>

- Making wooden boxes, and light pallets.
- Making wooden furniture, wooden sash, and other wooden products.
- Packing operations in manufacturing plants, and other types of packing and crating work in general.
- Construction work in general such as prefabricated houses.

BEFORE OPERATION

Read section titled "SAFETY" (pages 4 – 6).

Make sure of the followings before operation.

WORKING ENVIRONMENT

⚠ WARNING

- No flammable gas, liquid or other flammable objects at worksite.
- Clear the area of children or unauthorized personnel.

AIR SUPPLY

⚠ DANGER



- Never use oxygen, combustible gases or any other bottled gases.

⚠ WARNING

- Never connect Nailer to pressure which potentially exceeds 200 psi (13.7 bar 14 kgf/cm²).
- Never use non relieving coupler on Nailer.

1. Power source

- Use only clean, dry, regulated compressed air as a power source for this Nailer.
- Air compressors used to supply compressed air to this Nailer must comply with the requirements of the latest version of ANSI Standard B 19.3 "Safety Standard For Compressors For Process Industries."
- Moisture or oil in the air compressor may accelerate wear and corrosion in the Nailer.
Drain daily.

2. Filter-Regulator-Lubricator

- Use a regulator with a pressure range of 0 – 120 psi (0 – 8.3 bar 0 – 8.5 kgf/cm²).

- Filter-regulator-lubricator units supply an optimum condition for the Nailer and extend the Nailer life. These units should always be used.

Filter The filter removes moisture and dirt mixed in compressed air.

Drain daily unless fitted with an automatic drain.

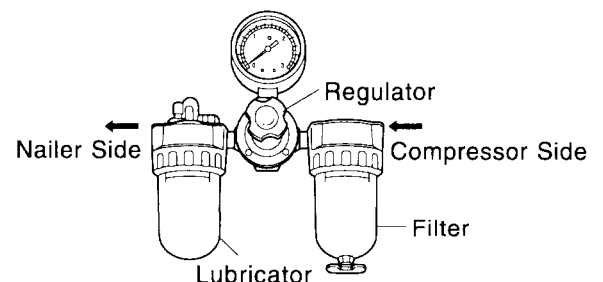
Keep the filter clean by regular maintenance.

Regulator The regulator controls the operating pressure for safe operation of the Nailer. Inspect the regulator before operation to be sure it operates properly.

Lubricator The lubricator supplies an oil mist to the Nailer.

Inspect the lubricator before operation to be sure the supply of lubricant is adequate.

Use Hitachi pneumatic tool lubricant.

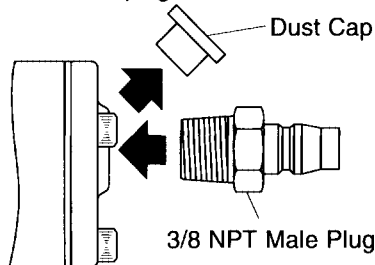


3. Air hose

Air hose must have a minimum working pressure rating of 150 psi (10.4 bar 10.6 kgf/cm²) or 150% of the maximum pressure produced in the system, whichever is higher.

4. Hose coupling

- The Nailer can be installed as follows:
Remove the dust cap placed at the air inlet.
Install a 3/8 NPT male plug at the air inlet.



- A female coupler must be on the air hose.
The hose coupling (male plug-female coupler) must remove all pressure from the Nailer when disconnected.
Never use a non relieving coupler on the Nailer.

5. Air consumption

Using the Air consumption table and the Air compressor size formula, find a correct compressor size.

Air consumption table

Operating pressure		psi (bar) (kgf/cm ²)	80 (5.5) (5.6)	90 (6.2) (6.3)	100 (6.9) (7)
Air consumption	NV83A	ft ³ /cycle (litr/cycle)	.062 (1.8)	.073 (2.1)	.084 (2.4)
	NV65AC		.048 (1.4)	.061 (1.7)	.075 (2.1)
	NV50A1		.025 (.71)	.030 (.85)	.035 (.99)

Air compressor size formula

Amount of air required

=number of Nailers

× average nails driven each minute per Nailer

× air consumption at given air pressure

× safety factor (always 1.2)

Example: 2 Nailers (NV83A) operating at 100 psi driving
30 nails per minute

Amount of air required

=2 × 30 × .84 (2.4) × 1.2

=6.0 CFM (ft³/min) (173 ltr/min)

After making the calculations as shown above, you should
find a compressor providing 6.0 CFM of air that is required.

LUBRICATION

It is important that the Nailer be properly lubricated.
Without proper lubrication, the Nailer will not work properly
and parts will wear prematurely.

- Use Hitachi pneumatic tool lubricant.
Do not use detergent oil or additives. These lubricants will harm the O-rings and other rubber parts. This will cause the Nailer to malfunction.
- Filter-regulator-lubricator units should always be used.
Keep the lubricator filled with Hitachi pneumatic tool lubricant.
- If a lubricator is not available, supply a 2-3 drops of Hitachi pneumatic tool lubricant into the air plug on the Nailer twice a day.

COLD WEATHER CARE

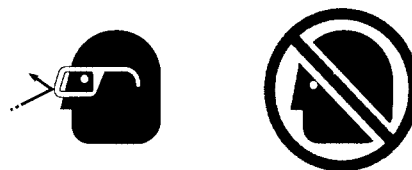
- Do not store the Nailer in a cold weather environment.
Keep the Nailer in a warm area until beginning the work.
- If the Nailer is already cold, bring it in a warm area and allow the Nailer to warm up before use.
 - ① Reduce the air pressure to 40 psi (2.8 bar 2.8 kgf/cm²).
 - ② Remove all nails from the Nailer.
 - ③ Connect the air hose and free-fire (blank-fire) the Nailer.
The lowered air pressure will be enough to free-fire the Nailer.
Slow speed operation tends to warm up the moving part.

⚠ CAUTION

- Do not free-fire the Nailer at high pressure.

TESTING THE NAILER

⚠ DANGER



- Always wear eye protector.

⚠ WARNING

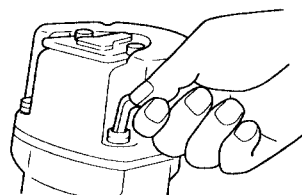
- Never use Nailer unless push lever is operating properly.

Before actually beginning the nailing work, test the Nailer by using the check list below. Conduct the tests in the following order.

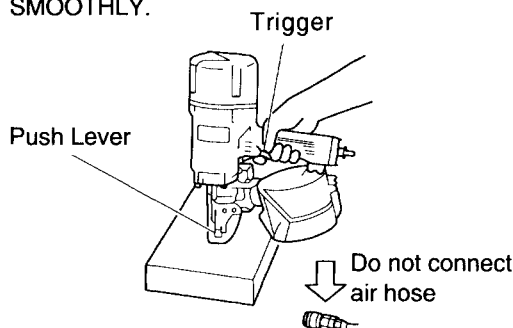
If abnormal operation occurs, stop using the Nailer and contact a Hitachi authorized service center immediately.

- (1) DISCONNECT AIR HOSE FROM NAILER.
REMOVE ALL NAILS FROM NAILER.

- ☐ ALL SCREWS MUST BE TIGHTENED.
If any screws are loose, tighten them.



- ☐ THE PUSH LEVER AND TRIGGER MUST MOVE SMOOTHLY.

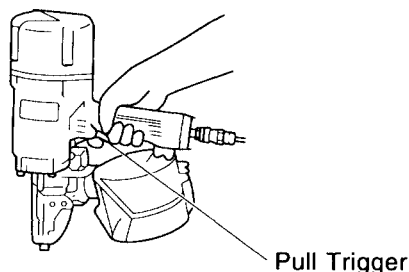


- (2) Adjust the air pressure to 70 psi (4.9 bar 5 kgf/cm²).
Connect the air hose.
Do not load any nails in the Nailer.

- ☐ THE NAILER MUST NOT LEAK AIR.

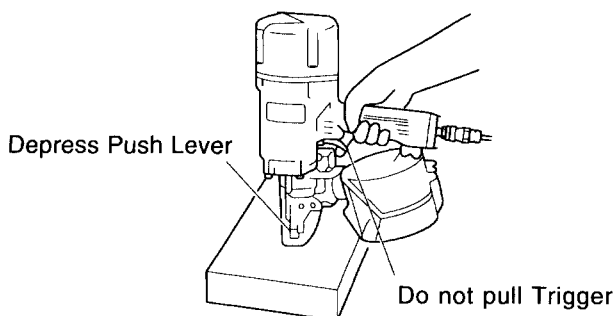
Hold the Nailer downward and pull the trigger.

- ☐ THE NAILER MUST NOT OPERATE.



- (3) With finger off the trigger, depress the push lever against the workpiece.

- ☐ THE NAILER MUST NOT OPERATE.



- (4) Without touching the trigger, depress the push lever against the workpiece.
Pull the trigger.

- ☐ THE NAILER MUST OPERATE

- (5) With the Nailer off the workpiece, pull the trigger.
Depress the push lever against the workpiece.

- ☐ THE NAILER MUST OPERATE.

- (6) If no abnormal operation is observed, you may load nails in the Nailer.
Drive nails into the workpiece that is the same type to be used in the actual application.

- ☐ THE NAILER MUST OPERATE PROPERLY.

ADJUSTING AIR PRESSURE

⚠ WARNING



- Do not exceed 120 psi (8.3 bar 8.5 kgf/cm²).

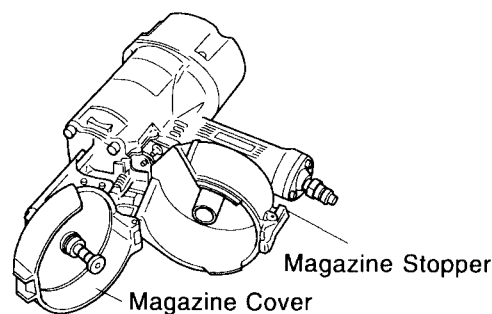
Adjust the air pressure at recommended operating pressure 70 – 120 psi (4.9 – 8.3 bar 5 – 8.5 kgf/cm²) according to the length of nails and the hardness of workpiece.
The correct air pressure is the lowest pressure which will do the job. Using the Nailer at a higher than required air pressure unnecessarily over stresses the Nailer.

LOADING NAILS

⚠ WARNING

- When loading nails into Nailer,
1) do not pull trigger;
2) do not depress push lever; and
3) keep Nailer pointed downward.

- (1) Press the magazine stopper and open the magazine cover.

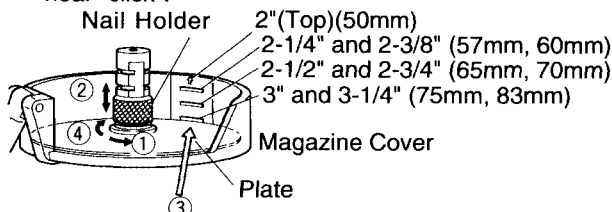


- (2) <NV83A>

Adjust the position of the nail holder according to the nail length.

The nail will not feed smoothly if the nail holder is not correctly adjusted.

- ① Turn the nail holder about 90 degrees counterclockwise.
- ② Sliding in vertical direction becomes possible.
Life or lower the nail holder to accept different length nails.
- ③ Adjust the plate to the nail length reference points on the magazine cover.
- ④ Turn the nail holder 90 degrees clockwise until you hear "click".



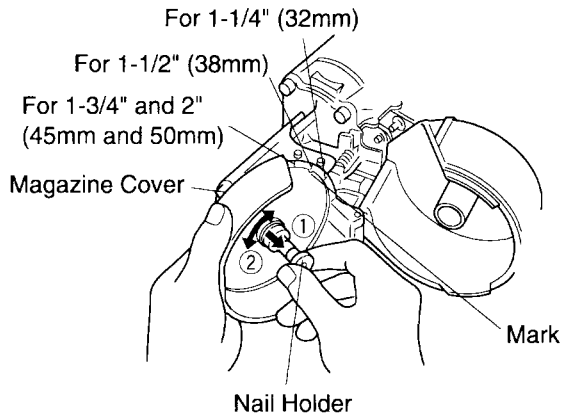
NOTE: Before loading nails in the magazine, adjust the plate. If the magazine cover is forcibly closed without adjusting the nail holder correctly, the nail holder may be damaged.

<NV50A1>

Adjust the position of the nail holder according to the nail length.

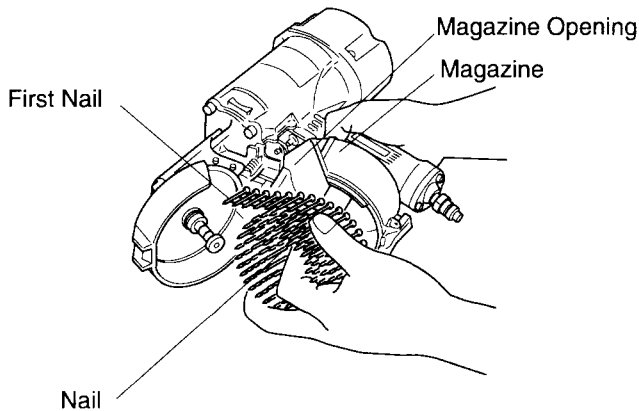
The nail will not feed smoothly if the nail holder is not correctly adjusted.

- ① Lift the nail holder.
- ② Turn the nail holder to align the mark with the numbers (1-1/4"(32mm), 1-1/2"(38mm), 1-3/4"(45mm), 2"(50mm) on the magazine cover.

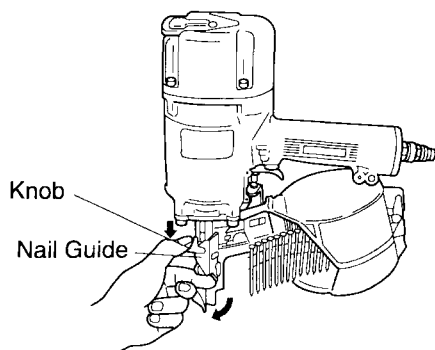


NOTE: Before loading nails in the magazine, adjust the plate. If the magazine cover is forcibly closed without adjusting the nail holder correctly, the nail holder may be damaged.

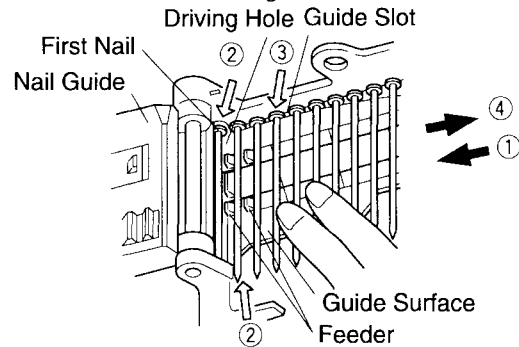
- (3) Place the nail coil in the magazine.
Insert the first nail into the magazine opening.



- (4) Close the magazine cover.
- (5) Grip the nail guide and knob with finger.
Press the knob down and swing the nail guide open.



- (6) ① Uncoil enough nails to reach the driving hole.
② Insert the first nail into the driving hole and the second nail between the two pawls of the feeder.
③ Fit the nail heads in the guide slot.



NOTE: Be careful not to deform the collated wires and not to disengage the nails with the guide surface. Otherwise, the nail guide will not close correctly.

- ④ Pulling the nails to the right, swing the nail guide closed.

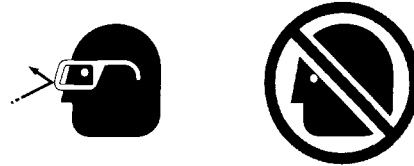
- (7) Lock the knob completely.

The Nailer is now ready to operate.

NAILER OPERATION

Read section titled "SAFETY"(pages 4 – 6).

⚠ DANGER



- Always wear eye protector which conforms to ANSI Z87. 1 specifications.

⚠ WARNING

- Never point Nailer toward yourself or anyone else.
- Never carry with finger on trigger.
Remove finger from trigger when not driving nails.
- Never place your hands or feet closer than 8 inches (200 mm) from firing head when using.
- Do not drive nails on top of other nails or with Nailer at too steep of an angle; nails can ricochet and hurt someone.
- In order to avoid double fire or unwanted ejection of a nail due to bouncing of the Nailer.
 - 1) do not push Nailer on workpiece with strong force;
 - 2) take Nailer away from workpiece using recoil;
 - 3) release trigger quickly when performing trigger fire.
- Do not drive nails into thin boards or near corners and edges of workpiece. Nails can be driven

through or away from workpiece and hit someone.

- **Never drive nails from both sides of a wall at the same time. Nails can be driven into and through the wall and hit a person on the opposite side.**
- **Never use Nailer which is defective or operating abnormally.**
- **Do not use Nailer as hammer.**
- **Disconnect air hose from Nailer when:**
 - 1) it is not in use;
 - 2) leaving work area;
 - 3) moving it to another location; and
 - 4) handing it to another person.

This Hitachi nailer has a STANDARD CONTACT TRIP MECHANISM (Bounce Fire). An OPTIONAL SEQUENTIAL TRIP MECHANISM kit (SINGLE SHOT) is available as order part number 876762.

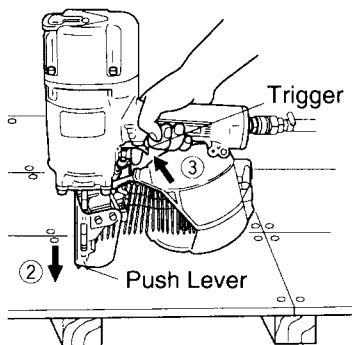
THE STANDARD CONTACT TRIP MECHANISM (Bounce Fire) is for use where rapid fastener placement is desired and must be operated in accordance with the following "Methods of Operation".

METHODS OF OPERATION

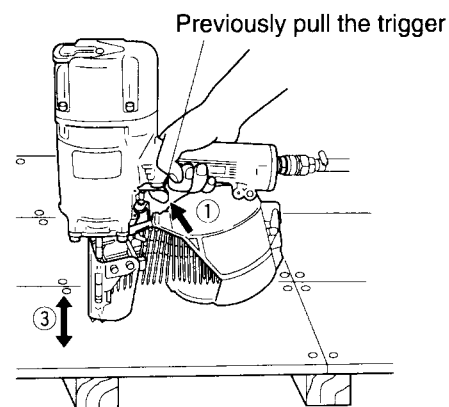
This Nailer is equipped with the push lever and does not operate unless the push lever is depressed (upward position). There are two methods of operation to drive nails with this Nailer.

They are:

1. Intermittent operation (Trigger fire);
 2. Continuous operation (Push lever fire);
- (1) Intermittent operation (Trigger fire)
- ① Position the nail outlet on the workpiece with finger off the trigger.
 - ② Depress the push lever firmly until it is completely depressed.
 - ③ Pull the trigger to drive a nail.
 - ④ Remove finger from the trigger.
- To drive another nail, move the Nailer along the workpiece and repeat this procedure.



- (2) Continuous operation (Push lever fire)
- ① Pull the trigger with the Nailer off the workpiece.
 - ② Depress the push lever against the workpiece to drive a nail.
 - ③ Move the Nailer along the workpiece with a bouncing motion.
- Each depression of the push lever will drive a nail.
As soon as the desired number of nails have been driven, remove finger from the trigger.



⚠ WARNING

- **Keep your finger off the trigger except during fastening operation, because serious injury could result if the push lever accidentally contacts you or others in work area.**
- **Keep hands and body away from the discharge area. The nailer with contact trip mechanism may bounce from the recoil of driving a fastener and unwanted subsequent fastener may be driven, possibly causing injury.**
- **Some types of loaded nails can spark out of the muzzle during a nail driving operation. Exercise caution!**

The OPTIONAL SEQUENTIAL TRIP MECHANISM (SINGLE SHOT PARTS) is for use where precision fastener placement is desired and must be operated in accordance with the following "Method of Operation".

You must first depress the push lever (upward position) where you want to drive a nail and then pull the trigger. After the each nail is driven, completely release the trigger and lift the tool off the work surface.

An OPTIONAL SEQUENTIAL TRIP MECHANISM may reduce the possibility of bodily injury to you or others in the work area. This is because it is less likely to drive an unwanted nail if you keep the trigger pulled and accidentally bump the push lever against yourself or others. An OPTIONAL SEQUENTIAL TRIP MECHANISM may also reduce the speed of operation compared to the standard contact trip mechanism.

NOTE:

- Both STANDARD CONTACT TRIP MECHANISM and OPTIONAL SEQUENTIAL TRIP MECHANISM are safe if used as described above and according to all warnings and instructions.
- Always handle nails and package carefully. If nails are dropped, collating wire may be damaged and cut, which will cause mis-feeding and jamming.
- After nailing:
 - 1) disconnect air hose from the Nailer;
 - 2) remove all nails from the Nailer;
 - 3) supply 2-3 drops of Hitachi pneumatic tool lubricant into the air plug on the Nailer; and
 - 4) open the petcock on the air compressor tank to drain any moisture.

ADJUSTING THE NAILING DEPTH

To assure that each nail penetrates to the same depth, be sure that:

- 1) the air pressure to the Nailer remains constant (regulator is installed and working properly), and
- 2) the Nailer is always held firmly against the workpiece.

<NV83A>

If nails are driven too deep or shallow into the workpiece, adjust the nailing depth in the following order.

- ① DISCONNECT AIR HOSE FROM NAILER
- ② Open the nail guide.
- ③ Lower the nail guide shaft until it comes in contact with the push lever.
- ④ Loosen the two locked nuts with the accessory wrenches. If nails are driven too deep, turn the two nuts to lift.

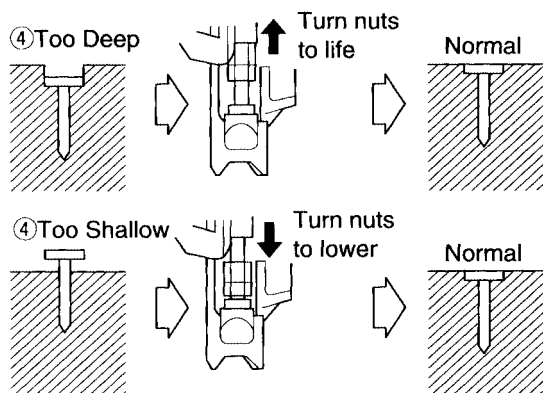
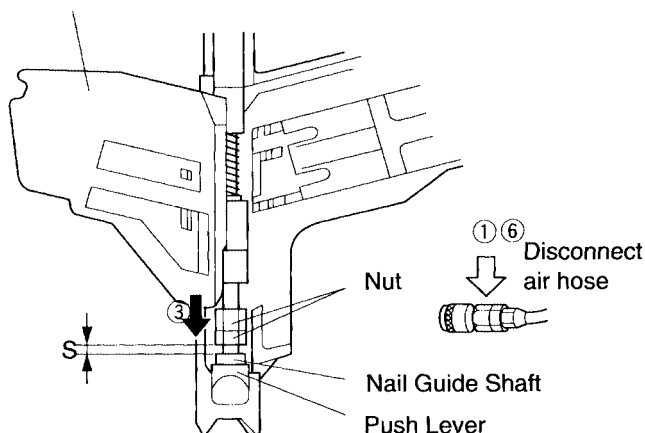
NOTE:

- If the distance (S) between the head of the nail guide shaft and the nut is too big, the push lever can not be properly depressed and driving operation becomes impossible. Adjust the distance (S) in the range of within .16" (4mm).

If nails are driven too shallow, turn the two nuts to lower. Normally, lower the two nuts until they contact the head of the nail guide shaft, and lock them.

- ⑤ Connect the air hose.
WEAR EYE PROTECTOR.
Perform a nailing test.
- ⑥ DISCONNECT AIR HOSE FROM NAILER.
- ⑦ Choose a suitable position for the two nuts.
Lock the two nuts with the accessory wrenches.
Tightening torque: 2.3-2.7 ft-lb (32-38 kgf-cm)

Nail Guide



MAINTENANCE

NOTE:

The information contained in this Manual is designed to assist you in the safe maintenance of the Nailer.

Some illustrations in this Manual may show details or attachments that differ from those on your own Nailer.

MAINTENANCE AND INSPECTION

Read section titled "SAFETY" (pages 4 – 6).

⚠ WARNING

- Disconnect air hose and remove all nails from Nailer when:

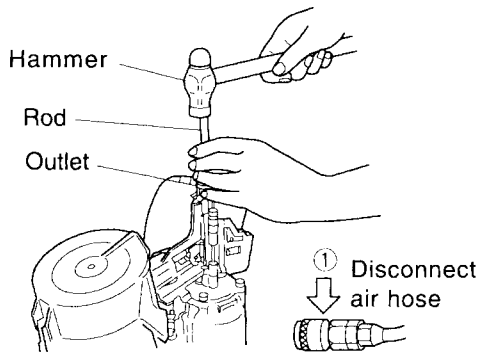
- 1) doing maintenance and inspection; and
- 2) clearing a jam.

1. Clearing a jam

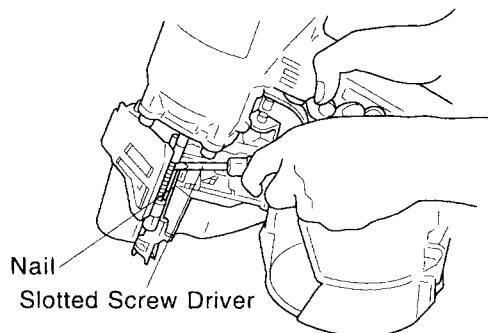
Remove a jammed nail in the following order :

- ① DISCONNECT AIR HOSE.
- ② Open the nail guide.
- ③ Insert a rod into the outlet.

Tap the rod with a hammer.



- ④ Remove the jammed nail with a slotted screw driver.



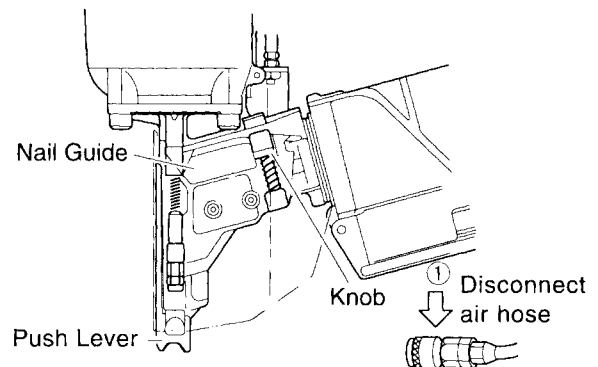
- ⑤ Cut the deformed collated wire with nippers. Correct the deformation.
- ⑥ In case of frequent jam, contact a Hitachi authorized service center.

2. Inspecting the feeders

- ① DISCONNECT AIR HOSE.

- ② Clean the knob sliding part.

Lubricate it with Hitachi pneumatic tool lubricant.

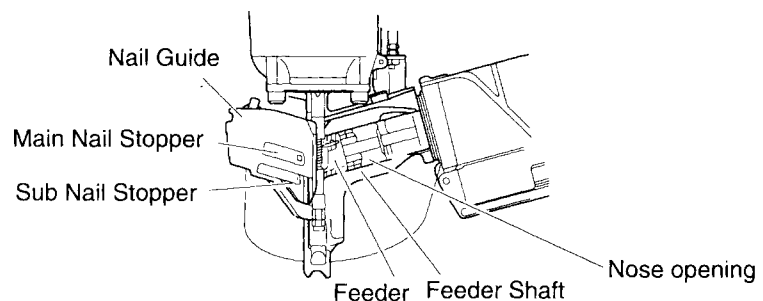


- ③ Open the nail guide and remove dust.

Lubricate the nose opening and feeder shaft.

⚠ CAUTION

- Check that the main nail stopper and sub nail stopper slide smoothly by pushing them with finger. If not smooth, nails can be driven at an irregular angle and hurt someone.



- ④ Lubricate the feeding surfaces of the nose and the nail guide after cleaning.

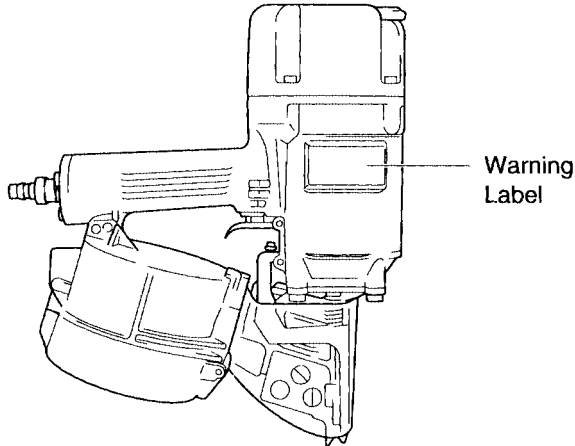
This promotes smooth operation and prevents rust.

3. Storing

- When not in use for an extended period, apply a thin coat of the lubricant to the steel parts to avoid rust.
- Do not store the Nailer in a cold weather environment. Keep the Nailer in a warm area.
- When not in use, the Nailer should be stored in a warm and dry place. Keep out of reach children.

4. WARNING LABEL

Change the WARNING LABEL if missing or damaged.
A new WARNING LABEL is available from a Hitachi authorized service center.



5. Maintenance chart (See page 17)

6. Operator troubleshooting (See page 17)

SERVICE AND REPAIRS

⚠ WARNING

- Only service personnel trained by Hitachi, distributor or employer shall repair the Nailer.
- Use only parts supplied or recommended by Hitachi for repair.

All quality Nailers will eventually require servicing or replacement of parts because of wear from normal use.

NOTE:

Specifications are subject to change without any obligation on the part of HITACHI.

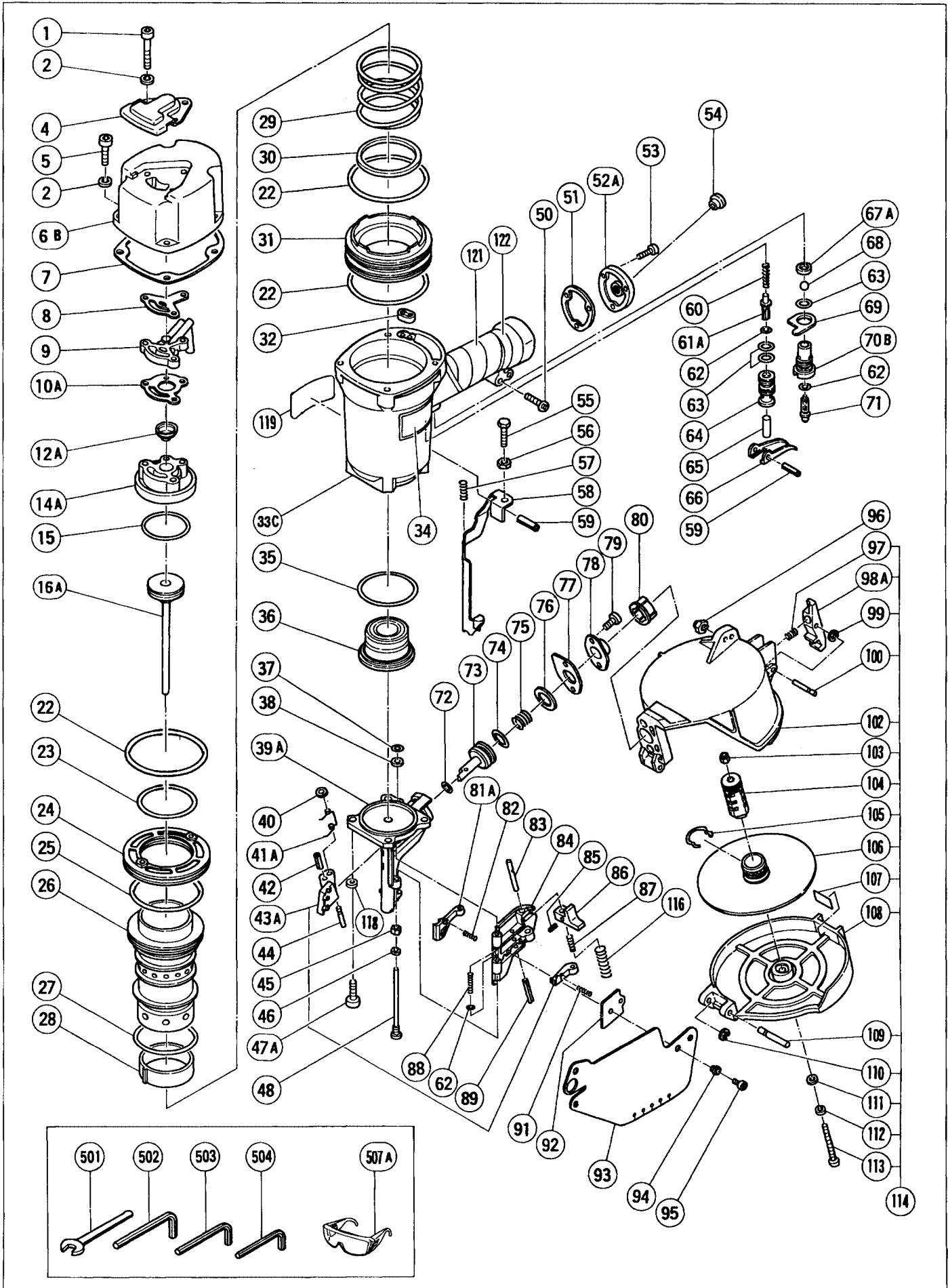
Maintenance chart

ACTION	WHY	HOW
Drain air line filter daily.	Prevent accumulation of moisture and dirt.	Open manual petcock.
Keep lubricator filled.	Keep the Nailer lubricated.	Fill with Hitachi pneumatic tool lubricant.
Clean filter element — then blow air through filter in direction opposite to normal flow.	Prevent clogging of filter with dirt.	Follow manufacturer's instructions.
Clean magazine and feeder mechanism.	Prevent a jam.	Blow clean daily.
Keep push lever working properly.	Promote operator safety and efficient Nailer operation.	Blow clean daily.
Lubricate the Nailer after nailing.	Extend the Nailer life.	Supply 2 – 3 drops of lubricant into the Nailer.
Drain air compressor.	Keep the Nailer operated properly.	Open petcock on air compressor tank.

Operator troubleshooting

Most minor problems can be resolved quickly and easily using the table below.
If problems persist, contact a Hitachi authorized service center for assistance.

PROBLEM	CHECK METHOD	CORRECTION
Nailer operates, but no nail is driven.	Open nail guide. Check for a jam.	Clear a jam per page 15.
	Check function of feeder per page 15.	Clean and lubricate.
	Check for proper nails.	Use only recommended nails.
Nailer does not operate.	<NV83A> Check position of nail guide shaft per page 14.	Readjust.
Weak drive. Slow to cycle.	Check air pressure.	Increase air pressure. (Do not exceed 120 psi (8.3 bar 8.5 kgf/cm ²))
	<NV83A> Check position of nailing depth adjustment nuts per page 14.	Readjust.
	—————	Use Hitachi pneumatic tool lubricant.
	Driver blade worn?	Contact Hitachi for replacement.
	Piston ring worn or damaged?	
Drives too deep.	Check air pressure.	Reduce air pressure. (Adjust 70 – 120 psi)
	<NV83A> Check position of nailing depth adjustment nuts per page 14.	Readjust.
Skipping nails. Intermittent feed.	Check for proper nails.	Use only recommended nails.
	Check function of nail feeder per page 15.	Clean and lubricate.
	—————	Use Hitachi pneumatic tool lubricant.
	Check position of plate or nail holder in magazine per page 11.	Adjust plate or nail holder to proper position.
	Piston O-ring cut or heavily worn?	Contact Hitachi for replacement.
Drives properly during normal operation, but does not drive fully at faster nailing speeds.	Check inside diameter of air hose.	Use larger air hose.

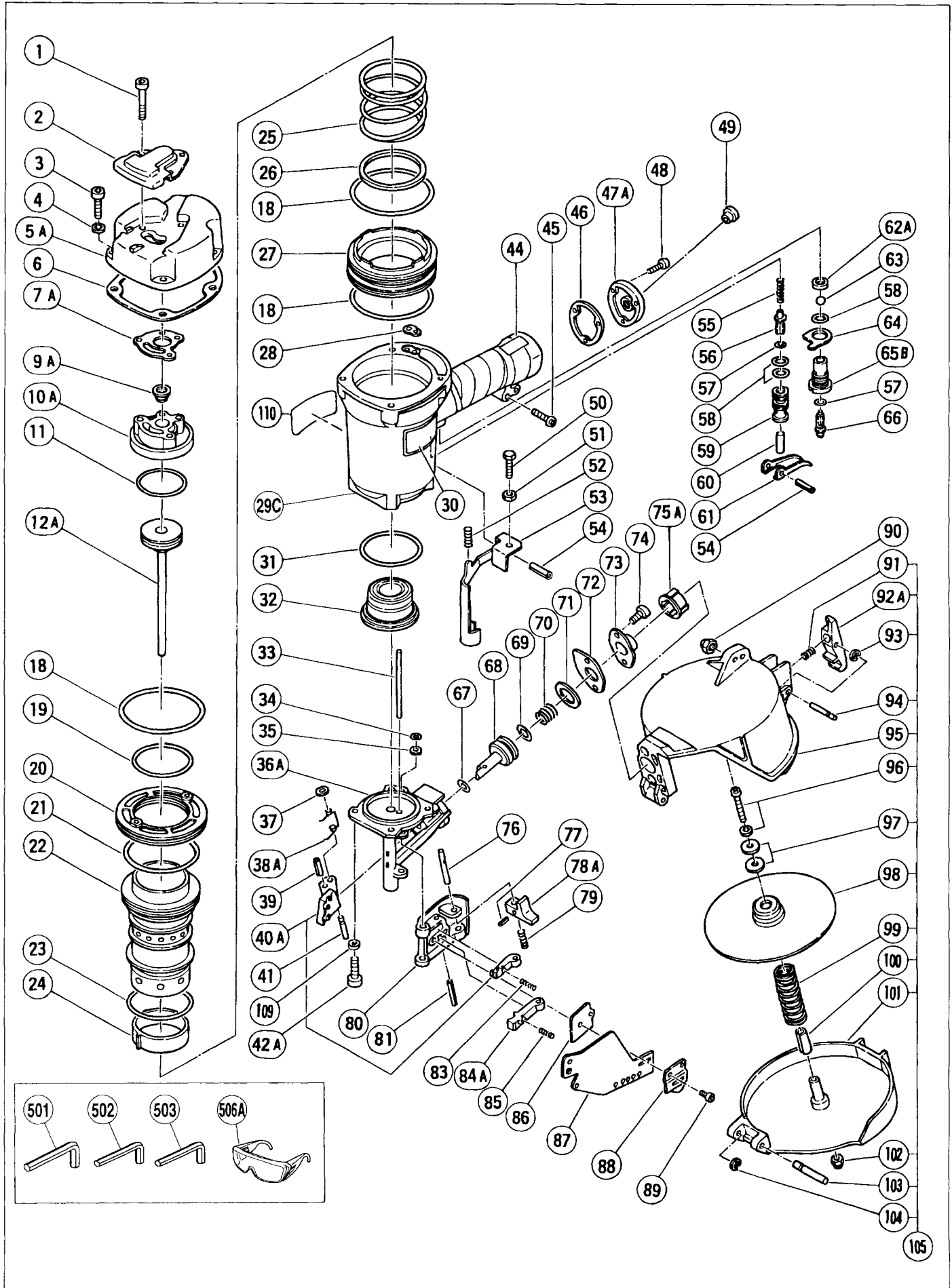


NV83A

Item No.	Code No.	Part Name	Q'ty
1	949832	Hexagon Socket Hd. Bolt M6×45	3
2	949455	Spring Washer M6	7
4	877330	Top Cover	1
5	949652	Hexagon Socket Hd. Bolt M6×25	4
6B	877324	Exhaust Cover	1
7	877325	Gasket (B)	1
8	877329	Gasket (F)	1
9	877328	Exhaust Piece	1
10A	877854	Gasket (C)	1
12A	878417	Exhaust Valve	1
14A	877852	Head Cap And Gasket Set	1
15	877368	O-Ring (1AP-48)	1
16A	878428	Piston (H)	1
22	877316	O-Ring (S-90)	3
23	877312	Cylinder O-Ring (I.D.63.1)	1
24	877318	Cylinder Plate	1
25	877313	Cylinder O-Ring (I.D.79.3)	1
26	877810	Cylinder	1
27	877314	Cylinder O-Ring (I.D.69.3)	1
28	877317	Cylinder Ring	1
29	877321	Cylinder Spring	1
30	877322	Base Washer	1
31	877310	Cylinder Guide	1
32	877327	Packing (G)	1
33C	877835	Boby (B)	1
34	306868	Nameplate	1
35	877315	Cylinder O-Ring (I.D.69.9)	1
36	878303	Piston Bumper	1
37	874436	O-Ring (P-4)	1
38	878279	Washer	1
39A	878414	Nose	1
40	877826	Feeder Shaft Ring	1
41A	877851	Feeder Spring	1
42	949496	Roll Pin D3×16	1
43A	877856	Feeder Set	1
44	877825	Feeder Shaft	1
45	878404	Special Nut M5	1
46	878405	Special Nut M5	1
47A	880810	Nylock Hex. Socket Hd. Bolt M8×20	4
48	878403	Nail Guide Shaft	1
50	949243	Machine Screw M5×25	1
51	877331	Gasket (D)	1
52A	878311	Cap	1
53	949658	Hexagon Socket Hd. Bolt M5×18	3
54	872035	Dust Cap	1
55	875650	Safety Bolt	1
56	949555	Nut M5	1
57	877365	Spring	1
58	878406	Push Lever	1
59	949866	Roll Pin D3×30	2
60	875643	Plunger Spring	1
61A	878155	Plunger (A)	1
62	874820	Plunger O-Ring	3
63	875638	O-Ring (S-12)	3
64	878266	Valve Bushing	1
65	875642	Safety Plunger (B)	1
66	876203	Trigger	1
67A	878734	Valve Packing	1

Item No.	Code No.	Part Name	Q'ty
68	875645	Urethane Ball (B) D7.14	1
69	875644	Valve Plate	1
70B	877335	Trigger Valve Bushing	1
71	878121	Trigger Plunger	1
72	872645	O-Ring (P-9)	1
73	877709	Feed Piston	1
74	876796	O-Ring (P-22)	1
75	877144	Feed Spring	1
76	877711	Bumper	1
77	877827	Feed Piston Cover (A)	1
78	877713	Feed Piston Cover	1
79	877839	Seal Lock Hex. Socket Hd. Bolt M5×10	2
80	878305	Magazine Bushing	1
81A	878401	Sub Nail Stopper	1
82	877468	Sub Stopper Spring	1
83	877820	Lock Shaft	1
84	878400	Nail Guide	1
85	949776	Roll Pin D3×10	1
86	877821	Guide Lock	1
87	877372	Spring	1
88	877871	Spring (A)	1
89	949865	Roll Pin D3×28	1
91	876681	Main Stopper Spring	1
92	877469	Nail Guide Cover	1
93	878402	Cover	1
94	878337	Sleeve (B)	2
95	877838	Seal Lock Hex. Socket Hd. Bolt M4×8	2
96	877371	Nylon Nut M5	1
97	877149	Stopper Spring	1
98A	880146	Magazine Stopper	1
99	872971	Retaining Ring (E-Type) For D3 Shaft	1
100	877150	Stopper Pin	1
102	878274	Magazine	1
103	876465	Nylon Nut M4	1
104	878413	Holder Shaft	1
105	878411	Ratchet Spring	1
106	878410	Nail Holder	1
107	878416	Label	1
108	878412	Magazine Cover	1
109	877832	Hinge Pin	1
110	968643	Retaining Ring (E-Type) For D4 Shaft	1
111	949423	Washer M4	1
112	949453	Spring Washer M4	1
113	949230	Machine Screw M4×50	1
114	878409	Magazine Ass'y	1
116	878425	Spring	1
118	949457	Spring Washer M8	4
119	878184	Warning Label	1
121	881768	Grip Tape (A)	1
122	880407	Tape	2
501	956174	Wrench 8mm	2
502	872422	Allen Wrench 6mm	1
503	944459	Allen Wrench 5mm	1
504	944458	Allen Wrench 4mm	1
507A	875769	Eye Protector	1

Parts are subject to change without any obligation on the part of the HITACHI due to improvements.

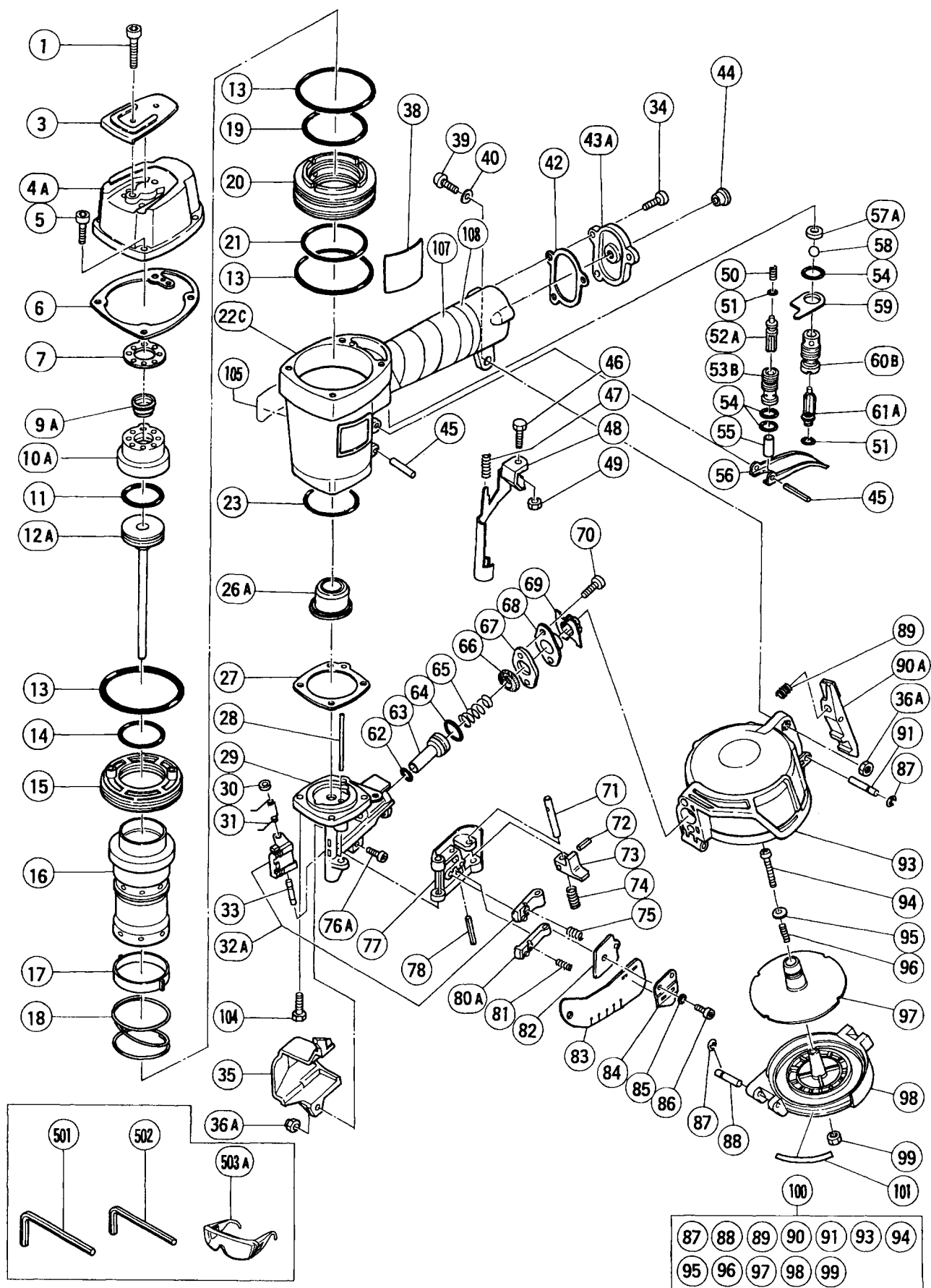


NV65AC

Item No.	Code No.	Part Name	Q'ty
1	949660	Hexagon Socket Hd. Bolt M6×20	3
2	877330	Top Cover	1
3	949652	Hexagon Socket Hd. Bolt M6×25	4
4	949455	Spring Washer M6	4
5A	877812	Exhaust Cover	1
6	877325	Gasket (B)	1
7A	877854	Gasket (C)	1
9A	878417	Exhaust Valve	1
10A	877852	Head Cap Gasket Set	1
11	877368	O-Ring (1AP-48)	1
12A	878309	Piston (H)	1
18	877316	O-Ring (S-90)	3
19	877312	Cylinder O-Ring (I.D.63.1)	1
20	877318	Cylinder Plate	1
21	877313	Cylinder O-Ring (I.D.79.3)	1
22	877810	Cylinder	1
23	877314	Cylinder O-Ring (I.D.69.3)	1
24	877317	Cylinder Ring	1
25	877321	Cylinder Spring	1
26	877322	Base Washer	1
27	877310	Cylinder Guide	1
28	877813	Packing (G)	1
29C	—	Body (B)	1
30	306869	Nameplate	1
31	877315	Cylinder O-Ring (I.D.63.9)	1
32	878303	Piston Bumper	1
33	877823	Nail Guide Shaft	1
34	874436	O-Ring (P-4)	1
35	878279	Washer	1
36A	878304	Nose	1
37	877826	Feeder Shaft Ring	1
38A	877851	Feeder Spring	1
39	949496	Roll Pin D3×16	1
40A	877856	Feeder Set	1
41	877825	Feeder Shaft	1
42A	880810	Nylock Hex. Socked Hd. Bolt M8×25	4
45	949243	Machine Screw M5×25	1
46	877331	Gasket (D)	1
47A	878311	Cap	1
48	949658	Hexagon Socket Hd. Bolt M5×18	3
49	872035	Dust Cap	1
50	875650	Safety Bolt	1
51	949555	Nut M5	1
52	877365	Spring	1
53	877817	Push Lever	1
54	949866	Roll Pin D3×30	2
55	875643	Plunger Spring	1
56	878122	Plunger (A)	1
57	874820	Plunger O-Ring	2
58	875638	O-Ring (S-12)	3
59	878266	Valve Bushing	1
60	875642	Safety Plunger (B)	1
61	876203	Trigger	1
62A	878734	Valve Packing	1
63	875645	Urethane Ball (B) D7.14	1
64	875644	Valve Plate	1
65B	877335	Trigger Valve Bushing	1

Item No.	Code No.	Part Name	Q'ty
66	878121	Trigger Plunger	1
67	872645	O-Ring (P-9)	1
68	877709	Feed Piston	1
69	876796	O-Ring (P-22)	1
70	877144	Feed Spring	1
71	877711	Bumper	1
72	877827	Feed Piston Cover (A)	1
73	877713	Feed Piston Cover	1
74	877839	Seal Lock Hex. Socket Hd. Bolt M5×10	2
75A	877479	Magazine Bushing	1
76	877820	Lock Shaft	1
77	949776	Roll Pin D3×10	1
78A	877821	Guide Lock	1
79	877372	Spring	1
80	877834	Nail Guide	1
81	949865	Roll Pin D3×28	1
83	876681	Main Stopper Spring	1
84A	877819	Sub Nail Stopper	1
85	877468	Sub Stopper Spring	1
86	877469	Nail Guide Cover	1
87	877822	Cover	1
88	877471	Cover Plate	1
89	877838	Seal Lock Hex. Socket Hd. Bolt M4×8	2
90	877371	Nylon Nut M5	1
91	877149	Stopper Spring	1
92A	880146	Magazine Stopper	1
93	872971	Retaining Ring (E-Type) For D3 Shaft	1
94	877150	Stopper Pin	1
95	878274	Magazine	1
96	986120	Machine Screw (W/Sp. Washer) M4×40	1
97	875249	Thrust Washer	2
98	878275	Nail Holder	1
99	878276	Holder Spring	1
100	878278	Sleeve	1
101	878277	Magazine Cover	1
102	876465	Nylon Nut M4	1
103	877832	Hinge Pin	1
104	968643	Retaining Ring (E-Type) For D4 Shaft	1
105	878273	Magazine Ass'y	1
109	949457	Spring Washer M8	4
110	878184	Warning Label	1
501	872422	Allen Wrench 6mm	1
502	944459	Allen Wrench 5mm	1
503	944458	Allen Wrench 4mm	1
506A	875769	Eye Protector	1

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NV50A1

Item No.	Code No.	Part Name	Q'ty
1	949662	Hexagon Socket Hd. Bolt M5×25	2
3	876179	Top Cover	1
4A	880275	Exhaust Cover (B)	1
5	949757	Hexagon Socket Hd. Bolt M5×20	4
6	876712	Gasket (F)	1
7	876713	Gasket (G)	1
9A	878417	Exhaust Valve	1
10A	876711	Head Cap (B)	1
11	876174	Piston O-Ring	2
12A	877898	Piston (H)	1
13	876161	O-Ring (S65)	3
14	877126	Cylinder O-Ring (D)	1
15	876168	Cylinder Plate	1
16	877486	Cylinder	1
17	876167	Cylinder Ring	1
18	876172	Cylinder Spring	1
19	877123	Cylinder O-Ring (A)	1
20	877122	Cylinder Guide	1
21	877124	Cylinder O-Ring (B)	1
22C	882950	Body (B)	1
23	877125	Cylinder O-Ring (C)	1
26A	878179	Piston Bumper	1
27	876673	Gasket (A)	1
28	877823	Nail Guide Shaft	1
29	877899	Nose	1
30	877826	Feeder Shaft Ring	1
31	877474	Feeder Spring	1
32A	880270	Feeder Set	1
33	877904	Feeder Shaft	1
34	949821	Hexagon Socket Hd. Bolt M5×16	3
35	877480	Guard	1
36A	877371	Nylon Nut M5	2
38	306870	Nameplate	1
39	949241	Machine Screw M5×20	1
40	876205	Washer	1
42	877131	Gasket (D)	1
43A	880036	Cap	1
44	872035	Dust Cap	1
45	949866	Roll Pin D3×30	2
46	875650	Safety Bolt	1
47	876676	Safety Spring	1
48	877890	Push Lever	1
49	949555	Nut M5	1
50	875643	Plunger Spring	1
51	874820	Plunger O-Ring	2
52A	878122	Plunger (A)	1
53B	878266	Valve Bushing	1
54	875638	O-Ring (S12)	3
55	875642	Safety Plunger (B)	1
56	876203	Trigger	1
57A	878734	Valve Packing	1
58	875645	Urethane Ball (B) D7.14	1
59	875644	Valve Plate	1
60B	877335	Trigger Valve Bushing	1
61A	878121	Trigger Plunger	1
62	872645	O-Ring (P-9)	1
63	877475	Feed Piston	1
64	873570	O-Ring (P-18)	1
65	876693	Feed Spring	1

Item No.	Code No.	Part Name	Q'ty
66	877476	Bumper	1
67	877477	Feed Piston Cover (A)	1
68	877478	Feed Piston Cover (B)	1
69	877479	Magazine Bushing	1
70	949819	Hexagon Socket Hd. Bolt M5×10	2
71	876682	Lock Shaft	1
72	949776	Roll Pin D3×10	1
73	877374	Guide Lock	1
74	877372	Spring	1
75	876681	Main Stopper Spring	1
76A	949239	Machine Screw M5×16	1
77	877465	Nail Guide	1
78	949865	Roll Pin D3×28	1
80A	877493	Sub Nail Stopper	1
81	877468	Sub Stopper Spring	1
82	877469	Nail Guide Cover	1
83	877470	Cover	1
84	877471	Cover Plate	1
85	949453	Spring Washer M4	2
86	949811	Hexagon Socket Hd. Bolt M4×8	2
87	872971	Retaining Ring (E-Type) For D3 Shaft	2
88	877152	Hinge Pin	1
89	877149	Stopper Spring	1
90A	880146	Magazine Stopper	1
91	877150	Stopper Pin	1
93	877906	Magazine	1
94	949228	Machine Screw M4×40	1
95	875246	Washer	1
96	877894	Holder Spring	1
97	877893	Nail Holder	1
98	877895	Magazine Cover	1
99	876465	Nylon Nut M4	1
100	877902	Magazine Ass'y	1
101	877903	Label	1
104	878181	Nylock Hex. Scket Hd. Bolt M5×6	4
105	878184	Warning Label	1
107	881768	Grip Tape (A)	1
108	880407	Tape	2
501	944458	Allen Wrench 4mm	1
502	943277	Allen Wrench 3mm	1
503A	875769	Eye Protector	1

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